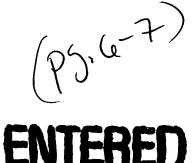
## `Rec'd PCT/PTO 29 JUL 2004 10/501933

PCT

RAW SEQUENCE LISTING DATE: 07/29/2004 PATENT APPLICATION: US/10/501,933 TIME: 15:59:00 Input Set : D:\gl5038us01.txt Output Set: N:\CRF4\07292004\J501933.raw 3 <110> APPLICANT: Mendrick, Donna Porter, Mark 4 5 Johnson, Kory 6 Castle, Arthur 7 Elashoff, Michael 8 Gene Logic, Inc. 10 <120> TITLE OF INVENTION: Molecular Hepatotoxicology Modeling 12 <130> FILE REFERENCE: 44921-5038-01-WO C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/501,933 C--> 14 <141> CURRENT FILING DATE: 2004-07-20 14 <150> PRIOR APPLICATION NUMBER: US 60/222,040 15 <151> PRIOR FILING DATE: 2000-07-31 17 <150> PRIOR APPLICATION NUMBER: US 60/222,880 18 <151> PRIOR FILING DATE: 2000-11-02 20 <150> PRIOR APPLICATION NUMBER: US 60/290,029 21 <151> PRIOR FILING DATE: 2001-05-11 23 <150> PRIOR APPLICATION NUMBER: US 60/290,645 24 <151> PRIOR FILING DATE: 2001-05-15 26 <150> PRIOR APPLICATION NUMBER: US 60/292,336 27 <151> PRIOR FILING DATE: 2001-05-22 29 <150> PRIOR APPLICATION NUMBER: US 60/295,798 30 <151> PRIOR FILING DATE: 2001-06-06 32 <150> PRIOR APPLICATION NUMBER: US 60/297,457 33 <151> PRIOR FILING DATE: 2001-06-13 35 <150> PRIOR APPLICATION NUMBER: US 60/298,884 36 <151> PRIOR FILING DATE: 2001-06-19 38 <150> PRIOR APPLICATION NUMBER: US 60/303,459 39 <151> PRIOR FILING DATE: 2001-07-09 41 <150> PRIOR APPLICATION NUMBER: US 60/331,273 42 <151> PRIOR FILING DATE: 2001-11-13 44 <150> PRIOR APPLICATION NUMBER: US 60/364,045 45 <151> PRIOR FILING DATE: 2002-03-15 47 <150> PRIOR APPLICATION NUMBER: US 60/364,055 48 <151> PRIOR FILING DATE: 2002-03-15 50 <150> PRIOR APPLICATION NUMBER: US 60/436,643 51 <151> PRIOR FILING DATE: 2002-12-30 53 <150> PRIOR APPLICATION NUMBER: US 09/917,800 54 <151> PRIOR FILING DATE: 2001-07-31 56 <150> PRIOR APPLICATION NUMBER: US 10/060,087 57 <151> PRIOR FILING DATE: 2002-01-31 59 <160> NUMBER OF SEQ ID NOS: 4295 61 <170> SOFTWARE: PatentIn Ver. 2.1



RAW SEQUENCE LISTING DATE: 07/29/2004 TIME: 15:59:00 PATENT APPLICATION: US/10/501,933 Input Set : D:\g15038us01.txt Output Set: N:\CRF4\07292004\J501933.raw 64 <211> LENGTH: 158 65 <212> TYPE: DNA 66 <213> ORGANISM: Rattus norvegicus 68 <220> FEATURE: 69 <223> OTHER INFORMATION: Genbank Accession No. AA108277 71 <400> SEOUENCE: 1 72 accettigaa etagaagett tetattetga eeeteaagea giteeatate eagaageaaa 60 73 aatcggccgt tttgtcgttc agaatgtttc tgcacagaag atggagaaaa tctaaagtga 120 74 aagtgcgcgt gacacacatg catttcacat atccgctc 158 76 <210> SEQ ID NO: 2 77 <211> LENGTH: 249 78 <212> TYPE: DNA 79 <213> ORGANISM: Rattus norvegicus 81 <220> FEATURE: 82 <223> OTHER INFORMATION: Genbank Accession No. AA684641 84 <400> SEOUENCE: 2 85 cgttctcaat aaatatttta tttttctgac actccaccct caatacaaaa gccttctggc 60 86 tggagccgga ttgtgcgaac aggccttgcc gcgggcacct gcttgcttag tccctaggcc 120 87 tgcggcaccc agacacaagg cagtgaacgt atggctagac ggagatggta ctttattaag 180 88 aaacagaaca gcaataggtc caaaaggggc agctgcgtca cctccagggg ctactccagc 240 249 89 tgctgtggg 91 <210> SEQ ID NO: 3 92 <211> LENGTH: 276 93 <212> TYPE: DNA 94 <213> ORGANISM: Rattus norvegicus 96 <220> FEATURE: 97 <223> OTHER INFORMATION: Genbank Accession No. AA684857 99 <220> FEATURE: 100 <221> NAME/KEY: misc\_feature 101 <222> LOCATION: (1)..(276) 102 <223> OTHER INFORMATION:  $n = a \text{ or } c \text{ or } g \text{ or } t^{-1}$ 104 <400> SEQUENCE: 3 W--> 105 cggggaagag gtggttttaa cagaatgcct cctggtcggg gtngnngtcc catgcctcct 60 106 tetagaagag attatnatga tatgageeet egtegaggae caccaccacc accacetggt 120 107 cgnggtggac ggggtggcag cagagetegg aatetteete tteetecaee accaecae 180 108 agagggggag atctcatggc ttacgacaga agaggacggc ctggagaccg ctatnatggc 240 276 109 atggttgggt tcagtgctga tgaaacttag gactct 111 <210> SEQ ID NO: 4 112 <211> LENGTH: 301 113 <212> TYPE: DNA 114 <213> ORGANISM: Rattus norvegicus 116 <220> FEATURE: 117 <223> OTHER INFORMATION: Genbank Accession No. AA684919 119 <400> SEQUENCE: 4 120 aaaccccgag tttatttaac cattttggag gtttaagagc atggtaccag caattgtttc 60 121 cctccaatcg gcatctccta gctacatcac agtgtggtga aatggtggtt aaccctcatt 120 122 gtcatcttga ctgcatctgg actcacatag gaggcacctc tgggagtatg tgggagggta 180 123 ctgccagaga ggcttaacag gatggcagac atttctgaat atgggcagca gcaaaccatc 240 124 agetgtggte etgagetgtg eettgtgetg gagggeaggt etgtaggtag eatgatggte 300

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                     PATENT APPLICATION: US/10/501,933
                                                              TIME: 15:59:00
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                     Output Set: N:\CRF4\07292004\J501933.raw
                                                                            301
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     128 <211> LENGTH: 317
     129 <212> TYPE: DNA
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     135 <220> FEATURE:
     136 <221> NAME/KEY: misc feature
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     138 <223> OTHER INFORMATION: n = a or c or q or t
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W--> 142 tatcangacc caattttatg cccctacagt aatttcaaaa ggccattaaa taagaatttt 120
     143 aatgagaaat tatctactgc aacatctcat taggatttct gtcccatgtg gccttgcacc 180
     144 aaggagaatg atatcgaagg ccttccacac aggtgtttcc aacgtcaggg ggcgctgtca 240
     145 cagccacaag agccaatgcc ttcttcaggg ttgcttccaa tttttgaagn ataaaatatc 300
     146 agcacacagg ctctcct
                                                                            317
     148 <210> SEQ ID NO: 6
     149 <211> LENGTH: 290
     150 <212> TYPE: DNA
     151 <213> ORGANISM: Rattus norvegicus
     153 <220> FEATURE:
     154 <223> OTHER INFORMATION: Genbank Accession No. AA686132
     156 <220> FEATURE:
     157 <221> NAME/KEY: misc feature
     158 <222> LOCATION: (1)..(290)
     159 <223> OTHER INFORMATION: n = a or c or g or t
     161 <400> SEQUENCE: 6
W--> 162 aagataatga tgacattntc atgctggaga aaaaaataag aacatctagt atgccaganc 60
     163 aggeteataa agtntgttte aaggagataa aaagaeteaa aaaantgeet catteaatge 120
     164 ctgattatgc tctgactaga aattatttgg aacttatggt ggagcttcct tggaacaaaa 180
     165 gtacaactga ccgcctggac atccgggcag cccgcatcct tctggacaat gaccactatg 240
     166 ccatggaaaa gctgaagagg agggtttttg gagtactttg gctgttgaga
                                                                            290
     168 <210> SEO ID NO: 7
     169 <211> LENGTH: 373
     170 <212> TYPE: DNA
     171 <213> ORGANISM: Rattus norvegicus
     173 <220> FEATURE:
     174 <223> OTHER INFORMATION: Genbank Accession No. AA686164
     176 <220> FEATURE:
     177 <221> NAME/KEY: misc feature
     178 <222> LOCATION: (1)..(373)
     179 <223> OTHER INFORMATION: n = a or c or g or t
     181 <400> SEQUENCE: 7
     182 cagttgataa tgttttacta tgacttagaa ctttttcccc caagaacaaa attatttgca 60
W--> 183 taaaaattca ggtatctgaa agactcaaaa ggctattttn cactttgttc aagtnctgct 120
     184 tecaggeatt aagagtgteg tacagttgtn gecactgetg ttttecaaat gteegatgtg 180
     185 tgctgtgact gacaactact tttctttgtg tctgatcgat tttgcagtag accattttag 240
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RAW SEQUENCE LISTING
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                     PATENT APPLICATION: US/10/501,933
                                                             TIME: 15:59:00
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                     Output Set: N:\CRF4\07292004\J501933.raw
     186 ttettacage ateaataaca aatgetteaa cateateage teeaatetgt agetettget 300
     187 gcattgtatc aaaagaaatc tctttgtttt ccactgccat tcccataaag gtgaggngtc 360
     188 tcattttcqc cat
                                                                            373
     190 <210> SEQ ID NO: 8
     191 <211> LENGTH: 299
     192 <212> TYPE: DNA
     193 <213> ORGANISM: Rattus norvegicus
     195 <220> FEATURE:
     196 <223> OTHER INFORMATION: Genbank Accession No. AA686190
     198 <220> FEATURE:
     199 <221> NAME/KEY: misc feature
     200 <222> LOCATION: (1)..(299)
     201 <223> OTHER INFORMATION: n = a or c or g or t
     203 <400> SEOUENCE: 8
     204 caacaagaag ctacacttta ttagtgatag aaacagtaca aattttaaac caagctgtag 60
W--> 205 ttccactttt caaacaccaa aanggggggg anggggggg agggtgtcct tgctgtcaga 120
     206 taattacatt gttaattcca taatagcatt tacaatatcg ttactgtngt ttttnagggc 180
     207 teggacagee titgetettg acacattige tigtgacatg aceaacteta tgteettaac 240
     208 ttccacaccc gtttcatcaa cctcctcttc ttcgntctnc tcttggacag tcggcgtct 299
     210 <210> SEQ ID NO: 9
     211 <211> LENGTH: 437
     212 <212> TYPE: DNA
     213 <213> ORGANISM: Rattus norvegicus
     215 <220> FEATURE:
     216 <223> OTHER INFORMATION: Genbank Accession No. AA686423
     218 <220> FEATURE:
     219 <221> NAME/KEY: misc feature
     220 <222> LOCATION: (1)..(437)
     221 <223> OTHER INFORMATION: n = a or c or g or t
     223 <400> SEQUENCE: 9
     224 cgccgtgaga gctgcctcag gaatattacg tcccctcaat gtctcggttt cgtcaaccta 60
W--> 225 teggaactgt gecaggaatg cetntnttag ttetgegetg egeaceatte ettttagaea 120
     226 tattcagaca tcagttgttt cctctgctcc aaggettgtc aagtetgtcg gacacctggc 180
     227 atatgggcac acggcatcag teettaatag agtggecaca ttggtteeca gtgtettgaa 240
     228 geeteeggte agagetetga egtaetgeag tgeaeggaaa ggaaagagaa agaeagtgaa 300
     229 gtcggttgtg catcgcttcc tccganttca ttctggcctt ttggttaagg aggaaaggct 360
     230 gggtataagg aaaaattttg ggaaaagttc aactncaagg aaagagccct ttnnggggat 420
     231 toggtgtoot gcaatag.
                                                                            437
     233 <210> SEQ ID NO: 10
     234 <211> LENGTH: 362
     235 <212> TYPE: DNA
     236 <213> ORGANISM: Rattus norvegicus
     238 <220> FEATURE:
    239 <223> OTHER INFORMATION: Genbank Accession No. AA686470
    241 <220> FEATURE:
    242 <221> NAME/KEY: misc feature
    243 <222> LOCATION: (1)..(362)
    244 <223> OTHER INFORMATION: n = a or c or g or t
    246 <400> SEQUENCE: 10
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                     PATENT APPLICATION: US/10/501,933
                                                             TIME: 15:59:00
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                     Output Set: N:\CRF4\07292004\J501933.raw
    247 gtcgatcata ccatgttgaa gatgagcggg tggcagcgac agagccaaaa taacagccgg 60
W--> 248 aacctgagga gagagtnttc cagaaggaag tgcatcttca tacaccacca cacctgaaag 120
     249 cagaaaccgg tccaattaca gtcatggcag ctgagtctct gcctttcgcc tttgagacag 180
    250 thtccagetg ggagetggaa geetggtatg aggntetgea ggaggteetg teeteagatg 240
    251 aaattggggg canctatatc tcatccccag gaaacgaaga ggaagaatca aaaacctttc 300
    252 actacttttg accetgeate ectagtttgg tgaetnagga geeagggeea geagaggtea 360
    253 ca
                                                                            362
    255 <210> SEQ ID NO: 11
    256 <211> LENGTH: 273
    257 <212> TYPE: DNA
    258 <213> ORGANISM: Rattus norvegicus
    260 <220> FEATURE:
    261 <223> OTHER INFORMATION: Genbank Accession No. AA686704
    263 <220> FEATURE:
    264 <221> NAME/KEY: misc feature
    265 <222> LOCATION: (1)..(273)
    266 <223> OTHER INFORMATION: n = a or c or g or t
    268 <400> SEQUENCE: 11
    269 ctgcacagtg cgagggaaca ggctccggtg ggatggaggc gggcggcgtg gcagactctt 60
    270 teettteeag tgeetgettg etetteacee tgggeatgtt eteeaetgge eteteggaee 120
W--> 271 tcaggcacat gcagaggaca cggagcgtgg acaacatcca gtttctgcct tttntcacca 180
     272 cggatgtcaa caacctgggc tggctgagtt atggagtctt gaagggagat gggaccctca 240
     273 tcatcgtcaa tactgtgggt gcagtgcttt caa
                                                                            273
     275 <210> SEQ ID NO: 12
    276 <211> LENGTH: 619
    277 <212> TYPE: DNA
    278 <213> ORGANISM: Rattus norvegicus
    280 <220> FEATURE:
    281 <223> OTHER INFORMATION: Genbank Accession No. AA799279
    283 <400> SEQUENCE: 12
    284 cccaagatta aatgattatt aaaaaagcgt gccactgtat agaaatcaac attctctccc 60
    285 ataattetgt geattgggae tatagaaatg teactgteee tgeteeacat etteaaatta 120
    286 acatteteag gteacaatag taagtettee cacaaggaae etteeggaaa aacaagetgt 180
    287 tteetegget catattteec getttttgta geatgeacea geaatetate caagaagtat 240
    288 atattgggga gtaaggagga gatccaccag caagcccaca gttgttaaca gccataagat 300
    289 tagatacaag cacaaaggga tatgtcaaca tactggcaaa gaatcctgtg acagcttggg 360
    290 aataactttt catttcattc atggtagaga ccccactgtc cagtgcatag gtattgatga 420
    291 gataagccag tgagttacac agccacaaag aaatgatgtc acctaggagg cgaggaatga 480
    292 ggcccgcaaa aaatcctacg atgccttctt cccggtagat ggttactatg gagtcacaca 540
    293 gtccgcagta cttagactct ctgccgataa actgtaccat ggacctcaga gtaatcacct 600
    294 tgaagggatg tgtaatgag
                                                                            619
    296 <210> SEQ ID NO: 13
    297 <211> LENGTH: 617
    298 <212> TYPE: DNA
    299 <213> ORGANISM: Rattus norvegicus
    301 <220> FEATURE:
    302 <223> OTHER INFORMATION: Genbank Accession No. AA799330
    304 <400> SEQUENCE: 13
    305 tatttaattq qaatacatqt cctqccaacc aaaccataaa acacttcatq qqaacccatc 60
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RAW SEQUENCE LISTING	ERROR SUMMARY	DATE:	07/29/2004
PATENT APPLICATION:	<b>US/10/501,933</b>	TIME:	15:59:01

Input Set : D:\gl5038us01.txt
Output Set: N:\CRF4\07292004\J501933.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 43,45,46,76,123,235 Seq#:5; N Pos. 66,290 Seq#:6; N Pos. 18,59,74,105 Seq#:7; N Pos. 100,115,150,357 Seq#:8; N Pos. 83,92,168,175,275,279 Seq#:9; N Pos. 84,86,326,395,413,414 Seq#:10; N Pos. 77,182,214,253,336 Seq#:11; N Pos. 174 Seq#:19; N Pos. 497,498,521,577,578,608,666 Seg#:22; N Pos. 479,625 Seq#:23; N Pos. 603 Seq#:24; N Pos. 440 Seq#:25; N Pos. 359,462,570 Seq#:26; N Pos. 358 Seq#:28; N Pos. 499,536 Seq#:30; N Pos. 566 Seq#:32; N Pos. 511,531,589,633 Seq#:33; N Pos. 564 Seq#:34; N Pos. 320 Seq#:35; N Pos. 471 Seq#:37; N Pos. 588 Seq#:38; N Pos. 489 Seq#:40; N Pos. 390,509 Seq#:42; N Pos. 658,663 Seg#:43; N Pos. 553 Seq#:44; N Pos. 543 Seq#:61; N Pos. 578,634,667 Seq#:71; N Pos. 429 Seq#:72; N Pos. 456 Seg#:77; N Pos. 449,602,706 Seq#:78; N Pos. 354 Seq#:79; N Pos. 271,382 Seq#:80; N Pos. 553,559,569,616,638,639,647,649,655,659,696,728,729 Seq#:81; N Pos. 486,496,542,543,547 Seq#:83; N Pos. 500 Seq#:84; N Pos. 480,501 Seq#:86; N Pos. 497,574 Seg#:89; N Pos. 525 Seq#:103; N Pos. 638 Seg#:106; N Pos. 528 Seg#:108; N Pos. 587,626 Seq#:118; N Pos. 87 Seq#:133; N Pos. 565 Seq#:135; N Pos. 589

RAW SEQUENCE LISTING	ERROR SUMMARY	DATE:	07/29/2004
PATENT APPLICATION:	<b>US/10/501,933</b>	TIME:	15:59:01

Input Set : D:\gl5038us01.txt
Output Set: N:\CRF4\07292004\J501933.raw

Seq#:142; N Pos. 387
Seq#:145; N Pos. 475,489,512
Seq#:152; N Pos. 301
Seq#:173; N Pos. 449,455
Seq#:191; N Pos. 351
Seq#:193; N Pos. 570
Seq#:196; N Pos. 399

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VERIFICATION SUMMARYDATE: 07/29/2004PATENT APPLICATION:US/10/501,933TIME: 15:59:01

Input Set : D:\gl5038us01.txt
Output Set: N:\CRF4\07292004\J501933.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0 M:341 Repeated in SeqNo=3 L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:60 M:341 Repeated in SeqNo=5 L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0 M:341 Repeated in SeqNo=6 L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:60 M:341 Repeated in SeqNo=7 L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:60 M:341 Repeated in SeqNo=8 L:225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:60 M:341 Repeated in SeqNo=9 L:248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:60 M:341 Repeated in SeqNo=10 L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:120 L:434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:480 M:341 Repeated in SeqNo=19 L:501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:420 M:341 Repeated in SeqNo=22 L:532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:600 L:557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:420 L:581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:300 M:341 Repeated in SeqNo=25 L:606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:300 L:654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:480 L:699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:540 L:744 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:480 M:341 Repeated in SeqNo=32 L:771 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:540 L:793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:300 L:820 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:420 L:865 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:540 L:889 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:480 L:932 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:360 M:341 Repeated in SeqNo=40 L:983 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:600 M:341 Repeated in SeqNo=42 L:1009 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:540 L:1034 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:540 L:1375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:540 M:341 Repeated in SeqNo=61 L:1576 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:420 L:1599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:420 L:1697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:420 M:341 Repeated in SeqNo=77 L:1722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:300

VERIFICATION SUMMARY DATE: 07/29/2004 PATENT APPLICATION: US/10/501,933

TIME: 15:59:01

Input Set : D:\gl5038us01.txt Output Set: N:\CRF4\07292004\J501933.raw

L:1747 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:240 M:341 Repeated in SeqNo=79 L:1777 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:540 M:341 Repeated in SeqNo=80